

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/549,241
Source: PT/10
Date Processed by STIC: 9/28/05

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PCT

RAW SEQUENCE LISTING

DATE: 09/28/2005

PATENT APPLICATION: US/10/549,241

TIME: 13:45:54

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\09282005\J549241.raw

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3 <110> APPLICANT: Genentech, Inc.
5 <120> TITLE OF INVENTION: COMPOSITIONS WITH HEMATOPOIETIC AND IMMUNE ACTIVITY
7 <130> FILE REFERENCE: 11669.162WOU1
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,241
C--> 10 <141> CURRENT FILING DATE: 2005-09-12
12 <150> PRIOR APPLICATION NUMBER: US 60/454,462
13 <151> PRIOR FILING DATE: 2003-03-12
15 <150> PRIOR APPLICATION NUMBER: US 60/511,390
16 <151> PRIOR FILING DATE: 2003-10-14
18 <160> NUMBER OF SEQ ID NOS: 40
20 <170> SOFTWARE: PatentIn version 3.1
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 427
24 <212> TYPE: DNA
25 <213> ORGANISM: Artificial Sequence
27 <220> FEATURE:
28 <223> OTHER INFORMATION: cDNA encoding a human Bv8 homologue
30 <400> SEQUENCE: 1
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33 gctgctgctc acgccccgcg ctggggacgc cgccgtgac accggggctt gtgacaagga 120
35 ctcccaatgt ggtggaggca tgtgctgtgc tgtcagtatc tgggtcaaga gcataaggat 180
37 ttgcacacct atgggcaaac tgggagacag ctgccatcca ctgactcgta aaaacaattt 240
39 tggaaatgga aggcaggaaa gaagaaagag gaagagaagc aaaaggaaaa aggaggttcc 300
41 attttttggg cggaggatgc atcacacttg cccatgtctg ccaggcttgg cctgtttacg 360
43 gacttcattt aaccgattta tttgttttagc ccaaaagtaa tcgctctgga gtagaaacca 420
45 aatgtga
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 129
50 <212> TYPE: PRT
51 <213> ORGANISM: Homo sapiens
53 <400> SEQUENCE: 2
55 Met Arg Ser Leu Cys Cys Ala Pro Leu Leu Leu Leu Leu Leu Leu Pro
56 1 5 10 15
59 Pro Leu Leu Leu Thr Pro Arg Ala Gly Asp Ala Ala Val Ile Thr Gly
60 20 25 30
63 Ala Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly Met Cys Cys Ala Val
64 35 40 45
67 Ser Ile Trp Val Lys Ser Ile Arg Ile Cys Thr Pro Met Gly Lys Leu
68 50 55 60
71 Gly Asp Ser Cys His Pro Leu Thr Arg Lys Asn Asn Phe Gly Asn Gly
72 65 70 75 80
75 Arg Gln Glu Arg Arg Lys Arg Lys Arg Ser Lys Arg Lys Lys Glu Val
76 85 90 95

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79 Pro Phe Phe Gly Arg Arg Met His His Thr Cys Pro Cys Leu Pro Gly
80          100          105          110
83 Leu Ala Cys Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys Leu Ala Gln
84          115          120          125
87 Lys
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92 <211> LENGTH: 423
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: cDNA encoding human Bv8 homologue
99 <400> SEQUENCE: 3
100 tgagggcgcc atgaggagcc tgtgctgcgc cccactcctg ctctcttgc tgetgccgcc      60
102 gagggcgcca tgaggagcct gtgctgcgcc cactcctgc tctcttgc tgetgccgcc      120
104 ctgctgctca cgccccgcgc tggggacgcc gccgtgatca ccggggcttg tgacaaggac      180
106 tcccaatgtg gtggaggcat gtgctgtgct gtcagtatct gggtaagag cataaggatt      240
108 tgcacaccta tgggcaaact gggagacagc tgccatccac tgactcgtaa agttccattt      300
110 tttgggcgga ggatgcatca cacttgccca tgtctgccag gcttggcctg tttacggact      360
112 tcatttaacc gatttatttg tttagcccaa aagtaatcgc tctggagtag aaaccaaattg      420
114 tga
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118 <211> LENGTH: 108
119 <212> TYPE: PRT
120 <213> ORGANISM: Homo sapiens
122 <400> SEQUENCE: 4
124 Met Arg Ser Leu Cys Cys Ala Pro Leu Leu Leu Leu Leu Leu Pro
125 1          5          10          15
128 Pro Leu Leu Leu Thr Pro Arg Ala Gly Asp Ala Ala Val Ile Thr Gly
129          20          25          30
132 Ala Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly Met Cys Cys Ala Val
133          35          40          45
136 Ser Ile Trp Val Lys Ser Ile Arg Ile Cys Thr Pro Met Gly Lys Leu
137          50          55          60
140 Gly Asp Ser Cys His Pro Leu Thr Arg Lys Val Pro Phe Phe Gly Arg
141 65          70          75          80
144 Arg Met His His Thr Cys Pro Cys Leu Pro Gly Leu Ala Cys Leu Arg
145          85          90          95
148 Thr Ser Phe Asn Arg Phe Ile Cys Leu Ala Gln Lys
149          100          105
152 <210> SEQ ID NO: 5
153 <211> LENGTH: 1338
154 <212> TYPE: DNA
155 <213> ORGANISM: Mus musculus
157 <400> SEQUENCE: 5
158 cggagcgctg ggcgtccctt aaccgccacc gcgtccccgg gacgccatgg gggaccgcgc      60
160 ctgtgccccg ctactgctac ttctgctgct accgctgctg ttcacaccgc ccgccgggga      120
162 tgccgcggtc atcaccgggg cttgcgacaa ggactctcag tgcggaggag gcatgtgctg      180
164 tgctgtcagt atctgggtta agagcataag gatctgcaca cctatgggcc aagtgggcga      240
166 cagctgccac cccctgactc ggaaagtcc attttggggg cggaggatgc accacacctg      300

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168 cccctgacctg ccaggcttgg cgtgtttaag gacttctttc aaccgggtta tttgcttggc 360
170 ccggaaatga tcaactctgaa gtaggaactt gaaatgcgac cctccgctgc acaatgtccg 420
172 tcgagtctca cttgtaattg tggcaaacia agaatactcc agaaagaaat gttctccccc 480
174 ttcccttgact ttccaagtaa cgtttctatc tttgattttt gaagtggctt tttttttttt 540
176 ttttttttcc ttcccttgaa ggaaagtttt gatttttggg gagatttata gaggactttc 600
178 tgacatggct tctcatttcc ctgtttatgt tttgccttga catttttgaa tgccaataac 660
180 aactgttttc acaaataagga gaataagagg gaacaatctg ttgcagaaac ttccctttgc 720
182 cctttgcccc actcgccccg ccccgccccg ccccgccctg cccatgcgca gacagacaca 780
184 cccttactct tcaaagactc tgatgatcct caccttactg tagcattgtg ggtttctaca 840
186 cttccccgcc ttgctggtgg acccactgag gaggtcaga gagctagcac tgtacaggtt 900
188 tgaaccagat cccccaagca gctcatttgg ggcagacgtt gggagcgctc caggaaacttt 960
190 cctgcaccca tctgccccac tggttttcag ttctgctgtt taactggtgg gaggacaaaa 1020
192 ttaacgggac cctgaaggaa cctggccccg ttatctagat ttgtttaagt aaaagacatt 1080
194 ttctccttgt tgtggaatat tacatgtctt tttctttttt atctgaagct tttttttttt 1140
196 ttctttaagt cttcttggtg gagacatttt aaagaacgcc actcgaggaa gcattgattt 1200
198 tcatytggca tgacaggagt catcatttta aaaaatcggt gttaagttat aatttaaact 1260
200 ttatttgtaa cccaaaggty taatgtaaat ggatttctcg atatcctgcc atttgtagtg 1320
202 gtatcaatat ttytatgt 1338

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205 <210> SEQ ID NO: 6

206 <211> LENGTH: 107

207 <212> TYPE: PRT

208 <213> ORGANISM: Mus musculus

210 <400> SEQUENCE: 6

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212 Met Gly Asp Pro Arg Cys Ala Pro Leu Leu Leu Leu Leu Leu Pro
213 1 5 10 15
216 Leu Leu Phe Thr Pro Pro Ala Gly Asp Ala Ala Val Ile Thr Gly Ala
217 20 25 30
220 Cys Asp Lys Asp Ser Gln Cys Gly Gly Gly Met Cys Cys Ala Val Ser
221 35 40 45
224 Ile Trp Val Lys Ser Ile Arg Ile Cys Thr Pro Met Gly Gln Val Gly
225 50 55 60
228 Asp Ser Cys His Pro Leu Thr Arg Lys Val Pro Phe Trp Gly Arg Arg
229 65 70 75 80
232 Met His His Thr Cys Pro Cys Leu Pro Gly Leu Ala Cys Leu Arg Thr
233 85 90 95
236 Ser Phe Asn Arg Phe Ile Cys Leu Ala Arg Lys
237 100 105

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240 <210> SEQ ID NO: 7

241 <211> LENGTH: 1415

242 <212> TYPE: DNA

243 <213> ORGANISM: Artificial Sequence

245 <220> FEATURE:

246 <223> OTHER INFORMATION: cDNA encoding human native EG-VEGF

248 <400> SEQUENCE: 7

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249 tggcctcccc agcttgccag gcacaaggct gagcgggagg aagcgagagg catctaagca 60
251 ggcagtgttt tgccttcacc ccaagtgacc atgagagggt ccacgcgagt ctcaatcatg 120
253 ctctctctag taactgtgtc tgactgtgct gtgatcacag gggcctgtga gcgggatgtc 180
255 cagtgtgggg caggcacctg ctgtgccatc agcctgtggc ttcgagggct gcggatgtgc 240
257 accccgctgg ggcgggaagg cgaggagtgc caccgccgga gccacaaggc ccccttcttc 300

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259 aggaaacgca agcaccacac ctgtccttgc ttgcccaacc tgctgtgctc caggttcccg      360
261 gacggcaggt accgctgctc catggacttg aagaacatca atttttaggg gcttgccctgg      420
263 tctcaggata cccaccatcc ttttcctgag cacagcctgg atttttatatt ctgccatgaa      480
265 acccagctcc catgactctc ccagtcctta cactgactac cctgatctct cttgtctagt      540
267 acgcacatat gcacacaggg agacatacct cccatcatga catgggtcccc aggctggcct      600
269 gaggatgtca cagcttgagg ctgtggtgtg aaagggtggcc agcctgggttc tcttccctgc      660
271 tcaggctgcc agagaggtgg taaatggcag aaaggacatt cccctccccc tccccagggtg      720
273 acctgctctc tttcctgggg cctgcccctc tcccacatg tatccctcgg tctgaattag      780
275 acattcctgg gcacaggctc ttgggtgcat tgctcagagt cccaggtcct ggcctgaccc      840
277 tcaggccctt cacgtgagggt ctgtgaggac caatttgtgg gtagtccatc ttccctcgat      900
279 tggttaactc cttagtttca gaccacagac tcaagattgg ctcttcccag agggcagcag      960
281 acagtcaccc caaggcaggt gtaggggagcc cagggaggcc aatcagcccc ctgaagactc     1020
283 tgggtccagt cagcctgtgg cttgtggcct gtgacctgtg accttctgcc agaattgtca     1080
285 tgcctctgag gccccctctt accacacttt accagttaac cactgaagcc cccaattccc     1140
287 acagcttttc cattaatatg caaatggtgg tggttcaatc taatctgata ttgacatatt     1200
289 agaaggcaat taggggtgtt ccttaaacaa ctcctttcca aggatcagcc ctgagagcag     1260
291 gttggtgact ttgaggaggg cagtcctctg tccagattgg ggtgggagca agggacaggg     1320
293 agcagggcag gggctgaaag gggcactgat tcagaccagg gaggcaacta cacaccaaca     1380
295 tgctggcttt agaataaaag caccaactga aaaaaa                                1415

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298 <210> SEQ ID NO: 8

299 <211> LENGTH: 105

300 <212> TYPE: PRT

301 <213> ORGANISM: Homo sapiens

303 <400> SEQUENCE: 8

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305 Met Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr Val
306 1          5          10          15
309 Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys
310          20          25          30
313 Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
314          35          40          45
317 Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser
318          50          55          60
321 His Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys
322 65          70          75          80
325 Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
326          85          90          95
329 Ser Met Asp Leu Lys Asn Ile Asn Phe
330          100          105

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333 <210> SEQ ID NO: 9

334 <211> LENGTH: 757

335 <212> TYPE: DNA

336 <213> ORGANISM: Artificial Sequence

338 <220> FEATURE:

339 <223> OTHER INFORMATION: cDNA encoding native mouse EG-VEGF

341 <400> SEQUENCE: 9

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342 gaagtgaggg gtaccaaagt agactgtgtt tgtcgtcacc tcaagtgatc atgagaggcg      60
344 ctgtgcatat cttcatcatg ctccttctag caacggcgctc cgactgtgcg gtcacacag      120
346 gggcctgtga acgagatata cagtgtgggg ccggcacctg ctgcgctatc agtctgtggc      180
348 tgcggggcct gcggttgtgt accccactgg ggcgtgaagg agaggagtgc caccaggaa      240

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350 gccacaagat ccccttcttg aggaaacgcc aacaccatac ctgtccctgc tcaccagcc      300
352 tgctgtgctc caggttcccg gacggcaggt accgctgctt ccgggacttg aagaataact      360
354 tttagtttgt ctggaactctg tctggagcct gactgggtga cctcttgctt tacacctgtg      420
356 tgatttagct cctgcaact tcgccattcc ccatcttgct cgtgtatgtg cagacaggca      480
358 gaccttccgc tatggaatag ttcaccaggg tgcagagagg agttcgtggc cttgagaagt      540
360 tggccagccc gaccttccctg gctcagactg cctgaagttg tgacagtgtg ggccttctca      600
362 gttgcctgcc ctttccctgca tgtgcgcttc ttccctaaacc acacctttct gggcactggc      660
364 ccatggatgc accactaaat caacaggtct gtgggggtgga tgatcaactt tctctccatt      720
366 tttcttttat tgactggctt cctaatttaa ggactgt      757
369 <210> SEQ ID NO: 10
370 <211> LENGTH: 105
371 <212> TYPE: PRT
372 <213> ORGANISM: Mus musculus
374 <400> SEQUENCE: 10
376 Met Arg Gly Ala Val His Ile Phe Ile Met Leu Leu Leu Ala Thr Ala
377 1          5          10          15
380 Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Ile Gln Cys
381          20          25          30
384 Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
385          35          40          45
388 Leu Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser
389          50          55          60
392 His Lys Ile Pro Phe Leu Arg Lys Arg Gln His His Thr Cys Pro Cys
393 65          70          75          80
396 Ser Pro Ser Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
397          85          90          95
400 Phe Arg Asp Leu Lys Asn Ala Asn Phe
401          100          105
404 <210> SEQ ID NO: 11
405 <211> LENGTH: 20
406 <212> TYPE: DNA
407 <213> ORGANISM: Artificial Sequence
409 <220> FEATURE:
410 <223> OTHER INFORMATION: PCR primer
412 <400> SEQUENCE: 11
413 tgggctacac tgagcaccag      20
416 <210> SEQ ID NO: 12
417 <211> LENGTH: 20
418 <212> TYPE: DNA
419 <213> ORGANISM: Artificial Sequence
421 <220> FEATURE:
422 <223> OTHER INFORMATION: PCR primer
424 <400> SEQUENCE: 12
425 cagcgtcaaa ggtggaggag      20
428 <210> SEQ ID NO: 13
429 <211> LENGTH: 28
430 <212> TYPE: DNA
431 <213> ORGANISM: Artificial Sequence
433 <220> FEATURE:

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VERIFICATION SUMMARY

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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date